

CONSTRUCTION OF *BACILLUS LICHENIFORMIS* T1 STRAIN, AND FERMENTATION PRODUCTION OF CRUDE ENZYME EXTRACT THEREFROM

Abstract

A recombinant bacteria and methods of making and using the same are provided. The recombinant bacteria is a recombinant *Bacillus* having at least one heterologous *kerA* coding segment inserted into the chromosome thereof, with the recombinant *Bacillus* producing greater quantities of keratinase than a corresponding wild-type *Bacillus* that does not have the at least one heterologous *kerA* coding segment inserted into the genome thereof. The *Bacillus* may be *Bacillus licheniformis* or *Bacillus subtilis*, and the the *kerA* coding segment may be a *Bacillus licheniformis* or *Bacillus subtilis* *kerA* coding segment.